TO: Metrology Interoperability Project Team (MIPT)
SUBJECT: Minutes of the February 15, 2005 meeting
ATTENDEES:

Robert Waite	DaimlerChrysler Corp.	248-576-6738	rdw5@dcx.com
Glen Allan	Ford Motor Co.	313-322-8985	gallan1@ford.com
John Horst	NIST	301-975-3430	John.horst@nist.gov
Gene Mychalowych	Adv. Sys. & Designs, Inc.	248-370-9919	genem@spcanywhere.com
Dave	Amstutz	248-576-6471	Dja28@dcx.com
Arkadiy Belkin	ASI DataMyte	763-746-4264	arkadiybelkin@asidatamyte.com
Cecil H. Nelson	ASI DataMyte	763-746-4157	cecilnelson@asidatamyte.com
Mark Roos	ASI DataMyte	248-543-2270	markroos@asidatamyte.com
Raj Chauhan	ASI DataMyte	763-746-4341	raj@asidatamyte.com
Bob Urwilen	CogniTens, Inc.	248-939-2043	Robert@cognitensusa.com
Anuj Gupta	Cummins, Inc.	812-377-7345	Anuj.k.gupta@cummins.com
Tyrone Tuttle	Cummins, Inc.	812-377-1744	Tyrone.f.tuttle@cummins.com
John Coski	DaimlerChrysler	248-576-6080	Jec12@dcx.com
Marvin J. Raguse	DaimlerChrysler	248-576-0675	Mjr14@dcx.com
Randy Von Allmen	DaimlerChrysler	248-533-5996	jrv@dcx.com
Robert Bertucci	DaimlerChrysler	248-576-0203	Rvb8@dcx.com
W. Kirk Crawford	DaimlerChrysler	248-576-7505	Wkc1@dcx.com
Robert Stewart	DaimlerChrysler Corp.	248-497-0867	Rrs14@daimlerchrysler.com
Frank J. Tappen	DataNet Quality Systems	248-357-2200 x7120	ftappen@winspc.com
Thagu Vivek	Dimensional Control Sys	248-269-9777	vthagu@3dcs.com
Michael Clifford	Ford Motor Co.	313-390-5209	Mcliffo3@ford.com
Warren Schwankey	Ford Motor Co.	313-322-8985	wschwank@ford.com
Carol Tierney	General Dynamics LD		
Richard Engel	GM Powertrain	248-857-4622	Richard.engel@gm.com
Curtis W. Brown	Honeywell FM&T	816-997-3548	cbrown@kcp.com
Rob Edgeworth	Intel Corp.	480-554-5654	Robert.edgeworth@intel.com
Imad Kassif	International Metrology Sys.	734-927-9800	Imad.kassif@ims-cmm.com
Vince Boens	John Deere & Co	309-765-3880	boensvincenta@johndeere.com

Cory Leland	John Deere & Co.	309-765-3762	lelandcory@johndeere.com
Michael Martin	Marposs Corp.	248-370-0404	Michael.martin@us.marposs.com
Andrew Haines	Minitab, Inc.	814-238-3280 x225	ahaines@minitab.com
Kevin Raymond	Minitab, Inc.	800-448-3555 x254	kraymond@minitab.com
Larry Maggiano	Mitutoyo	630-723-3580	Larry.maggiano@mitutoyo.com
Robert Brown	Mitutoyo	630-820-9666	Robert.brown@mitutoyo.com
Dale Greer	Perceptron, Inc.	734-276-2186	daleg@perceptron.com
Richard cochran	Precision Gage - Dearborn	734-254-9088	rcochran@pgdearborn.com
Thomas A. Stewart	Q-DAS, Inc.	248-299-4910	Tom.stewart@q-das.com
Denis Zayia	Renishaw	847-286-9953	Denis.zayia@renishaw.com
Barry Rogers	Renishaw, Inc.	847-922-3894	Barry.rogers@renishaw.com
Joe Schafer	Tecnomatix	408-852-4742	Joe.Schafer@tecnomatix.com
Steve Panton	UGS	248-455-0053	Stephen.panton@ugs.com
Henri Bosch	Xspect Solutions, Inc.	248-596-1193	hbosch@xspect.com
Keith Mills	Xspect Solutions, Inc.	248-596-1193/4	kmills@xspect.com

WELCOME AND INTRODUCTIONS

- The meeting was called to order by Robert Waite from DaimlerChrysler (DCX). Attendees gave personal introductions.

REVIEW OF AGENDA

- The agenda for today's meeting was reviewed and approved.

REVIEW OF PAST MINUTES

- The minutes from the September 15, 2004 meeting at IMTS reviewed.
- No corrections to previous minutes suggested.

REVIEW OF ACTION ITEMS FROM PREVIOUS MEETINGS

- The minutes from the September 15, 2004 meeting at IMTS reviewed.
- The result of the action item to combine the efforts of the QML and DML emerging de facto standards is the creation of the ad hoc committee to lay the groundwork for a Work Group to address said issue. This was completed in our afternoon session

MAJOR DISCUSSION ITEMS

- The result of the action item to combine the efforts of the QML and DML emerging de facto standards is the creation of the ad hoc committee to lay the groundwork for a Work Group to address said issue. This was completed in our afternoon session

- Robert Waite (DCX) opened with a presentation and overview of MIPT efforts to date with brief explanations of Project Team and Work Group activities. Some of the points covered were:
  › Costs of lack of interoperability (Interoperability Cost Analysis of the U.S. Automotive Supply Chain, Brunnermeier, S. &Martin, S., Research Triangle Institute, March 1999)
  › Industry leaning more toward internet for display of collected data.

- Liz Pinto was introduced to coordinate PR and promote press coverage for AIAG and team members at the upcoming Quality Expo in Chicago and the Control show in Germany, both in April 2005.

- Joe Schafer presented the status of DML. He also did a brief on the demo that was performed at the IMTS in Chicago in September 2005. The DML Work Group will submit a White Paper on the DML standard as soon as it is put into AIAG format.

- Curtis Brown presented the status of the DMIS conformance classes and test suite. Other highlights:
  › 5.0 was released in Dec 2004 as an ANSI standard.
  › AP will be released in a couple of months through AIAG.

- John Horst presented the status of NIST testing and spoke about the I++ demonstration at IMTS in September 2004. Two additional demos are scheduled for 2005 Quality Expo in Chicago, IL, and 2005 Control show in Stuttgart, Germany. Both will have panel discussions. John also spoke briefly concerning the CAD data work group and the white paper which has been posted. He made it a point to mention that STEP AP219 allows window to STEP world for DML. It was suggested by Carol Tierney (GDLS), why not supply coverage for DML with AP219, which is on is way to becoming a standard? This further led to the action item creating the ad hoc committee for QML/DML convergence.

- Barry Rodgers (Renishaw) indicated the value which there company achieves from using a common interface standard.

- Broke for lunch 12:00-1:00pm.

- Two breakout meetings were held on CAD STEP proof of concept test, and SPC common standard data communication. CAD Data minutes contained in file (CADdataWG NIST Horst PM21505.pdf).

- SPC meeting began with a presentation form R. Waite describing the problem and need for a standard SPC communication standard. Tom Stewart (Q-Das) presented the Q-Das Quality Markup Language (QML), citing that numerical addressing system is our major difference from DML. Tom also stated that Q-DAS has a significant customer base that needs to be protected if QML and DML are to merge.

- Robert Brown (Mitutoyo) presented a case for SPCML as a common format for data, thus enhancing SPC displays through not having to write interfaces for the multitude of data capture/display vendors. The result…quality goes up.

- Cecil (ASI Datamyte) presented their views addressing the issue.

- Dick Engel (GM) discussed the need for an industry standard which would enable cost reductions for suppliers and users. Dick indicated the importance to focus on data hauling not SPC function. John Coski (DCX) discussed the need for a common industry standard and the importance of a fixed frame work. He also indicated the importance of using an XML format. The group reached a consensus that there is an industry problem that needs to be solved. An Ad-Hoc committee was formed to investigate the problem and the extent of participation we could achieve in the community. Individuals were solicited for the

committee, scope was identified and assignments were identified (contained in MIPT Ad Hoc minutes). Dick Engel has agreed to chair the committee with Bob Brown and Tom Stewart agreeing to co-chair. Dick has scheduled the first meeting for March 15, 2005, from 9:30 – 1:30pm at AIAG plus an audio conference dial-up.

ACTION ITEMS

- Put Liz Pinto (AIAG) in contact with Deb Luongo (Reed Expositions) for press coverage at Quality Expo in Chicago, April 19, 2005. – done MIPT Feb 2005.
- Carol Tierney asked if we are doing anything about a demo at AutoTech in the fall. Glen Allan (Ford) talked with L. Plawecki on space at AutoTech, she said they would provide space and that it would be a good addition for that forum. We (MIPT) need to have further discussion on this topic.
- Robert Edgeworth (Intel) proposed an executive sponsorship letter should be sent to appropriate personnel at NIST for increased funding past 2005 to ensure their participation in these standards' efforts. MIPT needs to define a list of companies to sponsor letter and arrange composition.
- Each "user" company needs to develop user scenarios describing their requirements for SPC usage. The Ad-Hoc committee will send out a survey.
- DML Work Group to put White Paper in AIAG format and submit.
- MIPT has established timing for publications of DML and DMIS conformance classes, need to post.
- Keith Mills suggested that the community required a better web site to inform the community on the standards efforts. He sees a need to post benefits and advantages, explanation of each effort, downloads of documents or conformance classes and to eliminate misinformation. The team feels the NIST web site is the most accessible and MIPT will look into this.
- Send all attendees the NIST URL to get to the presentations, as well as other related NIST documents presented at today's meeting. Need to highlight action items that need completion by participants other than MIPT personnel.

NEXT MEETING

- Date: April 19, 2005 at Reed Quality Expo in Chicago.
- Time: 11-12:00 noon – Panel Discussion
- Location: Available at show

Submitted by,
Glen Allan
MIPT 030205

AGENDA

Metrology Interoperability Project Team
MIPT
April 19, 2005
1:00 – 12:00 noon
Quality Expo, Rosemont, IL

- **Welcome and introductions**

- **Identify minute taker**

- **Review and approve today's agenda**

- **Approval of minutes from the last meeting**

- **General business**
  › AIAG administrative items
  › (List any planned discussion items)
  › (Other)
  › (Other)

- **New business**

- **Next meeting**
  › (Date)
  › (Proposed Agenda)